

عنوان مقاله:

A Comparison Results of Stabilization of Slope using Soil Nailing Technique by the Current Analysis Methods

محل انتشار:

سومین کنفرانس ملی مهندسی ژئوتکنیک ایران (سال: 1397)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

This paper introduces the behavior of soil nailed slopes on sand by using centrifuge model testing. The model was tested in two phases. The soil nailed slope model was first constructed in a number of sequential runs. In the second stage a surcharge load was applied at the top of the model slope. Research has focused on the effects of varying both slope angle and the orientation angle of nails. Measurement of axial force, shear force and bending moment induced in the reinforcement was carried out using strain gauges fitted on the nails and developments of these forces was monitored during both stages of the test. The tests gave consistent results allowing a greater understanding of the development of forces in soil nail and providing a basis for prediction of displacements which occur in soil nailed structures

کلمات کلیدی:

Soil Nail, Centrifuge Test, Slope Stabilization, Excavation

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<https://civilica.com/doc/907726>

